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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/801,285

03/16/2004

Jason D. Hanzlik

10423US01

3049

7590

10/27/2005

Attention: Eric D. Levinson
Imation Corp.
Legal Affairs
P.O. Box 64898
St. Paul, MN 55164-0898

EXAMINER

NGUYEN, JOHN QUOC

ART UNIT

PAPER NUMBER

3654

DATE MAILED: 10/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/801,285	HANZLIK ET AL.	
	Examiner	Art Unit	
	John Q. Nguyen	3654	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>6/10/04</u> . | 6) <input type="checkbox"/> Other: ____. |

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 9-11 and 19 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

For clarity and/or definiteness, it appears that --wall—should be inserted before “thickness” (claims 9-11, 19).

All claims should be revised carefully to correct all other deficiencies similar to the ones noted above.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 4-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art in view of Cooper (US-6511010).

Applicant's admitted prior art discussed on pages 1-3 of the specification discloses a data storage tape cartridge with a tape reel. What is not disclosed is a tape reel formed of microcellular foam. Cooper discloses a reel having hubs 14 and flanges 12 formed of microcellular polyurethane foam and also suggest other microcellular materials. It would have been obvious to a person having ordinary skill in the art to provide the material of the tape reel of the admitted prior art as microcellular foam as

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taught by Cooper to take advantage of the characteristics of such a material including rigidity. The average total waviness and the radial run-out would have been obvious matters of design choice to a person having ordinary skill in the art based on factors such as preference, design criteria (such as required for a particular application), and costs (the ideal goal being zero waviness and radial run-out but may be cost-prohibitive). The wall thickness of the hub would have been an obvious matter of design choice to a person having ordinary skill in the art based on factors such as preference, design criteria (such as based on the amount and tension of the tape), space optimization (such as depending on cartridge size), and costs.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art in view of Cooper as applied to claims 1, 4-19 above, and further in view of Blizzard et al. (US-6231942).

Blizzard et al discloses a microcellular polypropylene material. It would have been obvious to a person having ordinary skill in the art to provide the microcellular material as microcellular polypropylene as such is old and well known as shown by Blizzard et al and to take advantage of the characteristics of microcellular polypropylene.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art in view of Cooper as applied to claims 1, 4-19 above, and further in view of Xu (US-6579910).

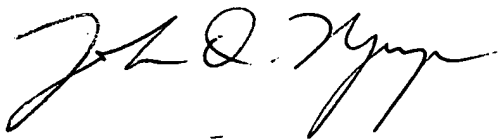
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Xu discloses microcellular material having cell size of less than about 20 or 10 microns. It would have been obvious to a person having ordinary skill in the art to provide the cell size of the microcellular material of the admitted prior art modified as above as being less than about 20 or 10 microns as taught by Xu depending on purpose/application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Q. Nguyen whose telephone number is (571) 272-6952. The examiner can normally be reached on Monday, Tuesday, Thursday, and Friday, from 7:00 AM to 4:30 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Katherine Matecki, can be reached on (571) 272-6951. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



John Q. Nguyen
Primary Examiner
Art Unit 3654